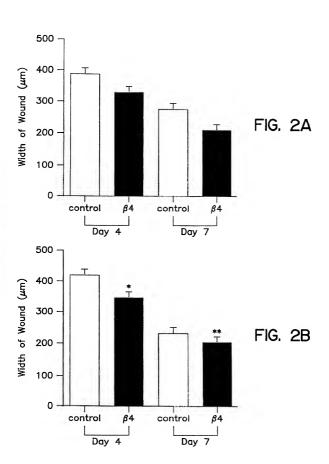
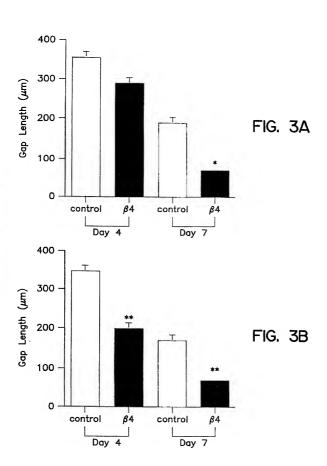


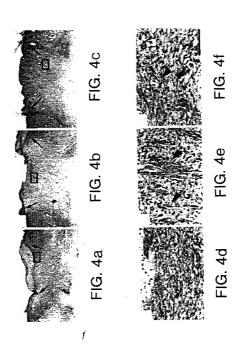
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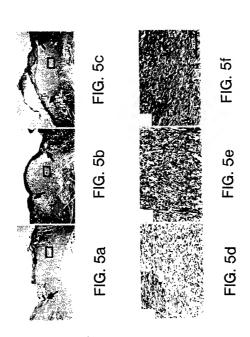


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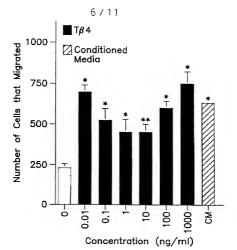
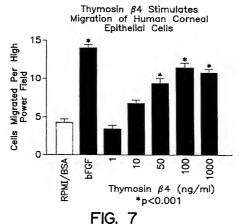


FIG. 6



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Thymosin  $\beta 4$  Stimulates Corneal Re-epithelialization in the Rat Cornea at 24 Hours

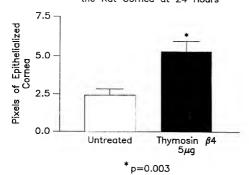
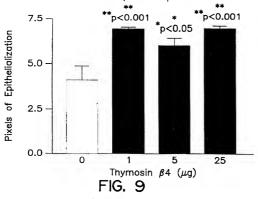


FIG. 8

Thymosin β4 Stimulates
Re-epithelialization in the Rat
Cornea at 24 Hours:
Dose Response Experiment



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Structural Formula of Thymosin Beta 4

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CH2 NH2 CH2 CH3 CH3 CH3 CH3 CH4 CH4 CH5 CH5 CH5 CH5 CH5 CH5 CH6 CH7	OH CHCH <sub>3</sub> CHCH <sub>3</sub> O O OH OH CHCH <sub>3</sub> NH - CH - C OH CH - CH - CH - CH - CH - C
CH2 CH2 CH2 CH2 CH2 CH2 CH2 OCH2 OCH2 OC	0 = 0 0 - 0 + 0 0 - 0 - 0 - - 0 - 0 - 0 - 0 0 - 0 - 0 - 0 - 0 - 0 0 - 0 - 0 - 0 - 0 - 0 - 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
CH2 CH2 CH2 CHCH3 CH CH CH CH 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OH CCHCH <sub>3</sub> O O I I I NH-CH-C-NI
O C C O H C C C O H C C C O H C C C O H C C C C	CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2
CH <sub>3</sub> O   H <sub>2</sub> =   NH - CH - C - C - C - C - C - C - C - C -	CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2
S - CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH - CH - C - C - C - C - C - C - C - C -	CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> CH <sub>4</sub>
0 = C-OH	CH2NH2 CH2 CH3 CH3 CH3 CH3 I I L9 I Lys
CH2 CH2 CH2 O O O CH O O O O O O O O O O O O O O O	OH CH2 OCH2 OCH2 OCH2 OCH2 OCH2 OCH2 OCH2 O
CH NH2  CH2  CH2  CH2  CH2  CH2  L B =  -NH-CH-Cr  L ys  3	CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH3 CH2 CH3 CH3 CH3 CH2 CH2 CH3 CH2 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3
0 = C OH	C C OH C C C C OH C C C C C C C C C C C
OH CH OH CH CH OH CH	NH - CH - C - 1 Phe Phe 12
CH <sub>3</sub> C-	

FIG. 10a

Structural Formula of Thymosin Beta 4

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FIG. 10b

Amino Acid Sequence of Thymosin eta 4 and other eta-Thymosins DOFFERS DIFFOCE

															ш
40		AGES	AGES	STES	AK	AK	SEIS	AS	ATA	AATS	AK	Æ	YNQRS	A.	ტ
35	LIX	EQEDQ AGES	EQEKQ	EQEKQ	EQEKQ	EQEKQ AK	EQEKR	EQEKQ	EQEKQ ATA	EQEKA	EQEKQ	EOELT	OOEKE	O EKE	EQEKQ (
30	HELIX	EKFDK SKLKK TETQE KNPLP SKETI	SKETI	SKETI	TKETI	TKETI	TKETI	TKETI	TKETI	SKETI	TKETI	TKELI	SKETI	TKETI	TKOTI
25		KNPLP	KNPLP	KNPLP	KNITLP	KNILP	KONTLP	TETQE KNPLP	KNPLP	KNPLP	KNILP	KNILP	KNILLP	KNITLP	KNITCP
20		TETQE	SKLKK TETQE	TETQE	TETQE	AKLKK TETQE	TETOE	TETQE	TETQE	TETQE	TETQE	TETAE	TATEE	TETAE	TETQE
15	:	SKLKK		EKFDK AKLKK TETQE KNPLP	AKLKK		AKLKK	TKLKK	TKLKK	TKLKK	AKLKK	TKLKK	SKLKK	SKLKK	SKLKK TETQE
10	.HELIX	EKFDK	EKFDK	EKFDK	NSFDK	NSFDK	ASFDK	ASFDK	SNFDK	DISEV TSFDK	ASFDK	SSFDK	BIFDK	ANFDK	STFDK
2	H	DMAEI	DMAEI	DMAEI	DLGEI	DMGEI	DMGEI	NITE	DLAEV	DISEV	DMGEI	DISEV SSFDK	DLSEV	FVSEV.	DVSEV STFDK
		ac-SDKP DMAEI	ac-AKDP	ac-SDKP	ac-ADKP	ac-ADKP	ac-ADKP	ac-SDKP	ac-SDKP	ac-SDKP	ac-ADKP	ac-SDKP	ac-SDKP	ac-SDKP	Tβsea urch ac-ADKP
			lla 1	(en		let J	_			${^{ extsf{T}}eta_{12}}^{ extsf{perch}}$				$_{ m I} ho_{ m scallops}$	a urch
	,	$T\beta_4$	${ t T}{eta}_4{ t A}{ t l}{ t a}$	$_{{ m I}eta_4}{}^{ m Xen}$	$_{1\beta_9}$	$_{{ m T}eta_9}{ m Met}$	$T\beta_{10}$	$T\beta_{11}$	$T\beta_{12}$	$^{T\beta_{12}}$	$T\beta_{13}$	$T\beta_{14}$	$^{T\beta_{15}}$	Tβsc	$^{1}\!\!\!/_{\mathrm{Se}}$

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Phylogenetic Distribution of Thymosin 84-Like Peptides

Species	First peptide	Second peptide	Third peptide
Human	β4	β10	β15
Rat, mouse, cat	β4	β10	β <sub>15</sub> (rat tumor)
Calf	β4	β	
Pig, sheep	β4	β <sub>9</sub> Met	
Horse, chicken, gecko	β4		
Xenopus laevis	β <sub>4</sub> Xen		
Rainbow trout	β11	β12	
Perch	β <sub>12</sub> perch		
Whale	β13		
Sea urchin	β14	Bsea urchin	
Scallop	Bscallop		

FIG. 11b